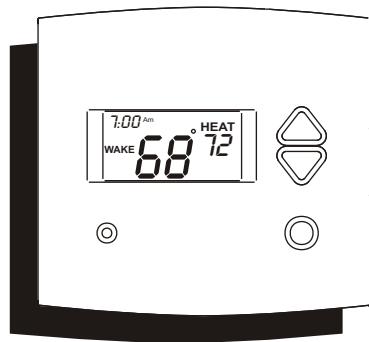


Installation Instructions

P374-1100EZ
TSTATCCPSE01
TSTATBBPSE01

Digital Thermostat

NOTE: Read the entire instruction manual before starting the installation.



**HEAT
COOL
&
HEAT
PUMP**

MULTI-STAGE • SINGLE DAY PROGRAMMABLE

Form: IM-TSTAT-19

Cancels: New

Printed in U.S.A.

Catalog No.: 63TS-TA10

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CAUTION Follow *Installation Instructions* carefully.



DISCONNECT POWER TO THE HEATER -
AIR CONDITIONER BEFORE REMOVING
THE OLD THERMOSTAT AND INSTALLING
THE NEW THERMOSTAT.



WARNING

Replacement Components Division © Carrier Corporation 10/01

This device complies with Part 15 of the FCC rules.
Operation is subject to the following 2 conditions:
(1) This device may not cause harmful interference,
and (2) This device must accept any interference
received, including interference that may cause
undesired operation.

STEP #1**PREPARATION**

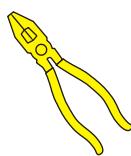
Proper installation of the thermostat will be accomplished by following these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.



Assemble tools



*Flat Blade
Screwdriver*



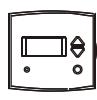
*Wire cutter
& Stripper*



Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.



Carefully unpack the thermostat. Save the screws, bracket, and instructions.



Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.

STEP #2 REMOVE & REPLACE OLD THERMOSTAT



Remove the cover of the old thermostat. If it does not come off easily check for screws.



Loosen the screws holding the thermostat base or subbase to the wall, and lift away.



Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.



Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

STEP #3

WIRE CONNECTIONS



If the terminal designations on your old thermostat do not match those on the new thermostat, **refer to the chart below, or the wiring diagrams that follow.**

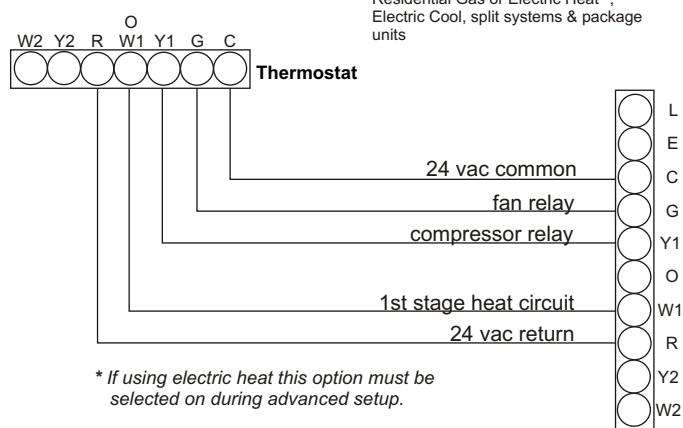
Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1,O,B
Rh, R, M, Vr, A	Power	R
C	Common	C *
O/B	Rev. Valve	W1,O,B**
Y2	2nd Stage Cool	Y2
W2	2nd Stage Heat	W2
RS+5	Remote Sensor +5vdc	RS+5
RS	Remote Sensor Signal	RS
RS G	Remote Sensor Ground	GND
CK1	Dry Contact Switch 1	
CK2	Dry Contact Switch 2	

* C may not be used on all systems.

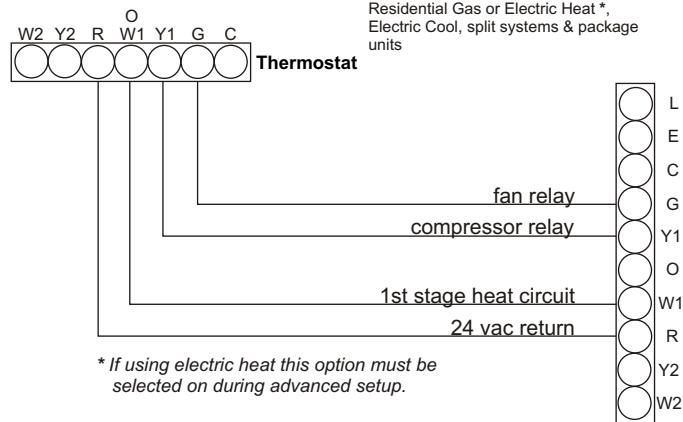
** O/B is used if your system is a Heat Pump.

Sample Wiring Diagrams

5 Wire, 1 Stage Cooling, 1 Stage Gas Heat

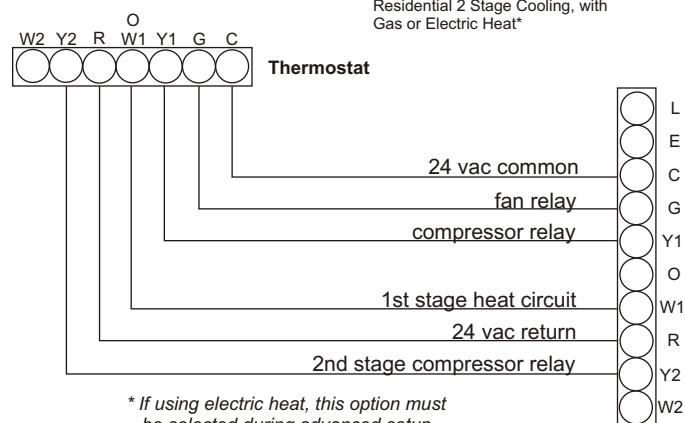


4 Wire, 1 Stage Cooling, 1 Stage Gas Heat

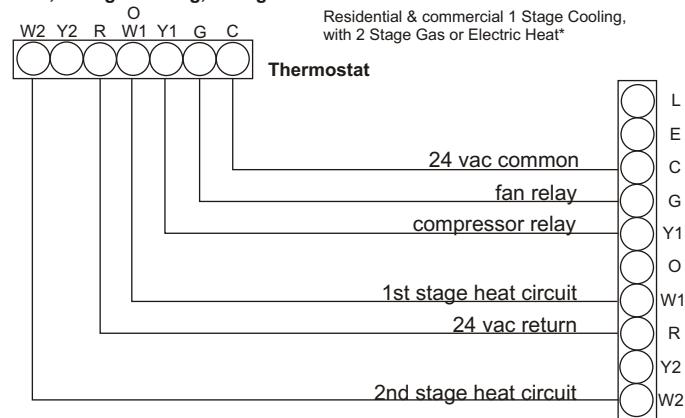


Sample Wiring Diagrams

6 Wire, 2 Stage Cooling, 1 Stage Heat



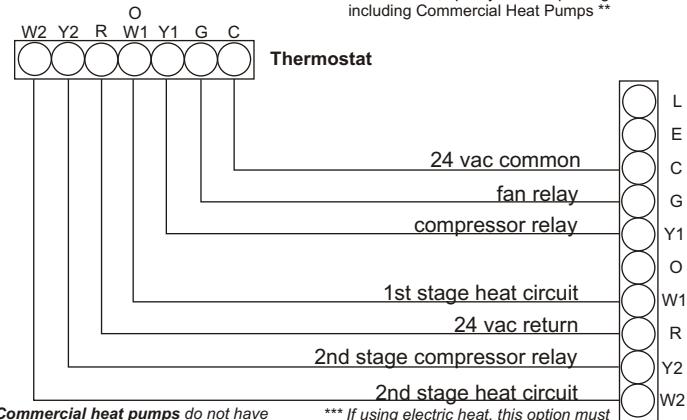
6 Wire, 1 Stage Cooling, 2 Stage Heat



Sample Wiring Diagrams

7 Wire, 2 Stage Cooling, 2 Stage Heat

Commercial Gas or Electric Heat ***,
Electric Cool, split systems & package units
including Commercial Heat Pumps **

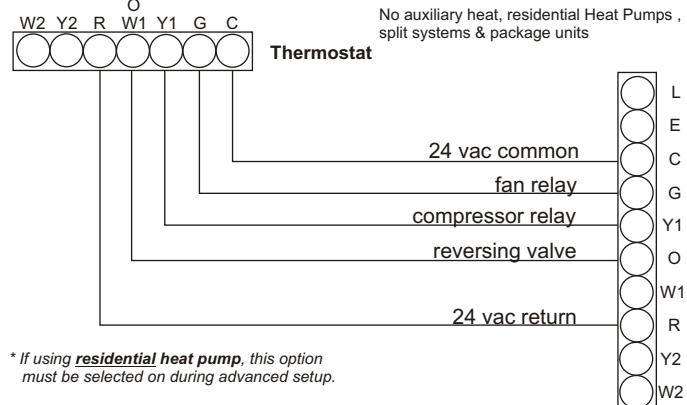


** Commercial heat pumps do not have the heat pump turned on in advanced s

*** If using electric heat, this option must be selected on during advanced setup.

5 Wire, 1 Stage Cooling, 1 Stage Heat - Heat Pump*

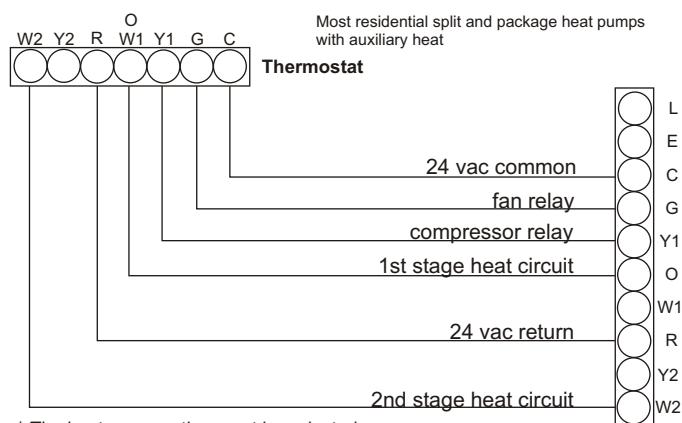
No auxiliary heat, residential Heat Pumps , split systems & package units



* If using **residential heat pump**, this option must be selected on during advanced setup.

Sample Wiring Diagram

6 Wire, 1 Stage Cooling, 2 Stage Heat, Heat Pump *



* The heat pump option must be selected on during advanced setup.

Calibration

Every thermostat is calibrated before it leaves the factory. Under normal circumstances there will never be a need to recalibrate the thermostat again.

To accommodate special needs, the thermostat may be recalibrated following these steps:

1. While holding the Mode/Next button in, press the fan button for 5 seconds. After all the icons in the display appear, release the buttons.
2. Press the Up and Down arrow buttons simultaneously, twice.
3. Press the Up or Down buttons until the flashing number equals the current room temperature.
4. Press the Mode/Next button to return to normal operation.

STEP #4	TEST OPERATION
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Turn the power on to the Heating/Air Conditioning system.



Press the *MODE/NEXT* button repeatedly until the **HEAT** icon appears on the display. Press the Up or Down buttons until the set temperature is 10 degrees above room temperature. The furnace should turn on.



Press the *MODE/NEXT* button repeatedly until the **COOL** icon appears on the display. Press the Up or Down buttons until the set temperature is 10 degrees below room temperature. The air conditioner should turn on. **NOTE:** Most equipment has a *time delay of 5 minutes between cool cycles. This feature is defeatable on the thermostat. Consult the Owner's Manual under Setup, cycles per hour.*



Press the *MODE/NEXT* button to **OFF**. Press the **FAN** button to **Fan On**. The fan should turn on and run continuously.

TROUBLESHOOTING

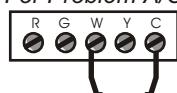


SYMPTOM: When using 4 wires (R, G, W, Y), the air conditioning equipment tries repeatedly to turn on, but cannot. At times the display dims or disappears.

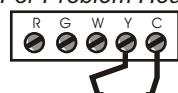
CAUSE: There is not enough power available to "power share".

REMEDY: Connect a 270 ohm, 10 watt power resistor at the furnace as shown below.

For Problem A/C



For Problem Heat



SYMPTOM: The air conditioning does not attempt to turn on.

CAUSE: The compressor timer lockout may prevent the air conditioner from turning on, for a period of time.

REMEDY: Consult the Owner's Manual in the Setup section to defeat the cycles per hour and compressor timeguard.



SYMPTOM: The display is blank.

CAUSE: Lack of proper power.

REMEDY: Make sure power is turned on to the furnace and 24vac between **R & W**. If **C** is used, 24vac between **R & C**.

TROUBLESHOOTING



SYMPTOM: The air conditioning does not attempt to turn on.

CAUSE: The cooling setpoint is set too high.

REMEDY: Consult the Owner's Manual in the Setup section to lower the cooling setpoint limit.



SYMPTOM: The heating does not attempt to turn on.

CAUSE: The heating setpoint is set too low.

REMEDY: Consult the Owner's Manual in the Setup section to raise the heating setpoint limit.

TROUBLESHOOTING



SYMPTOM: When controlling a residential heat pump, and asking for cooling, the heat comes on.

CAUSE: Heat pump is not selected "on" in the Advanced Setup.

REMEDY: Select heat pump **on** during Advanced Setup programming. Consult the Owner's Manual.



SYMPTOM: When calling for cooling, both the heat and cool come on.

CAUSE: The Advanced Setup is configured to control a heat pump, and the hvac the thermostat is controlling is a "conventional" (non heat pump) system.

REMEDY: Consult the Owner's Manual in the Advanced Setup section to turn off the heat pump.



P/N 88-377